

## BIOGRAPHY

**Mitchell L. R. Walker** is a Professor of Aerospace Engineering at the Georgia Institute of Technology where he directs the High-Power Electric Propulsion Laboratory. His primary research interests include both experimental and theoretical studies of advanced plasma propulsion concepts for spacecraft and fundamental plasma physics. Dr. Walker received his Ph.D. in Aerospace Engineering from the University of Michigan, where he specialized in experimental plasma physics and advanced space propulsion. His training includes rotations at Lockheed Martin and NASA Glenn Research Center. In 2005, he founded the electric propulsion program at the Georgia Institute of Technology. Dr. Walker has served as an Associate Editor of the American Institute of Aeronautics and Astronautics (AIAA) and on the Editorial Board of *Frontiers in Physics and Astronomy and Space Sciences – Plasma Physics* since 2015. He was a participant in the 2014 US National Academy of Engineering US Frontiers of Engineering Symposium and in 2015 he was the co-organizer for a focus session at the symposium. Dr. Walker is also a recipient of the AIAA Lawrence Sperry Award (2010), the Air Force Office of Scientific Research Young Investigator Program Award (2006), and a NASA Faculty Fellow Award (2005). He is an Associate Fellow of the AIAA and serves as the incoming Chair of the AIAA Electric Propulsion Technical Committee. Dr. Walker served on the National Research Council Aeronautics and Space Engineering Board for the Air Force Reusable Booster System Study (2011-2012). His service to the American Physical Society's Division of Plasma Physics includes Local Coordinator of the Conference (2015) and Chair of the Subcommittee for Low Temperature and Dusty Plasmas (2016). Dr. Walker's research activities include Hall effect thrusters, gridded ion engines, magnetoplasmadynamic thrusters, diagnostics for plasma interrogation and thruster characterization, vacuum facility effects, helicon plasma sources, plasma-material interactions, and electron emission from carbon nanotubes. He has authored more than 100 journal articles and conference papers in the fields of electric propulsion and plasma physics.